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[1. H12.02: Unobtrusive Workload Measurement](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:JSCParticipating Center(s):ARCTask design and associated hardware and software impose cognitive and physical demands on an operator and thus, drive the workload associated with a task. This solicitation is looking for technologies and methods to measure, assess, and predict astronaut workload unobtrusively, and to extend these technologies to measuring and predicting astronaut workload ...

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[2. H12.03: Technology for Monitoring Muscle Protein Synthesis and Breakdown in Spaceflight](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:JSC Post flight decrements in skeletal muscle size and function are well documented, however, the true time course of muscle adaptations during long duration spaceflight have thus far been unaddressed. This information is of importance because it can help to identify: When the most critical stages of adaption to space are occurring.Whether changes are occurring at a constant rate or ...

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[3. H12: Human Research and Health Maintenance](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

NASA's Human Research Program (HRP) investigates and mitigates the highest risks to astronaut health and performance in exploration missions. The goal of the HRP is to provide human health and performance countermeasures, knowledge, technologies, and tools to enable safe, reliable, and productive human space exploration, and to ensure safe and productive human spaceflight. The scope of these goal ...

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[4. H13.01: Advanced NDE Modeling and Analysis](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:LaRCParticipating Center(s):JSC,ARCTechnologies sought under this SBIR include near real-time large scale nondestructive evaluation (NDE) and structural health monitoring (SHM) simulations and automated data reduction/analysis methods for large data sets. Simulation techniques will seek to expand NASA's use of physics based models to predict inspection coverage for complex aerospace ...

SBIR National Aeronautics and Space Administration

[5. H13.02: NDE Sensors](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:LaRCParticipating Center(s):JSC,KSC,GRCTechnologies sought under this SBIR

program can be defined as advanced sensors, sensor systems, sensor techniques or software that enhance or expand NASA's current sensor capability. It is desirable but not necessary to target structural components of space flight hardware. Examples of space flight hardware will include light weight structural mater ...

SBIR National Aeronautics and Space Administration

[6. H13: Non-Destructive Evaluation](#)

Release Date: 11-14-2014 Open Date: 11-14-2014 Close Date: 01-28-2015

Future manned space missions will require technologies that enable detection and monitoring of the space flight vehicles during deep space missions. Development of these systems will also benefit the safety of current missions such as the International Space Station and Aerospace as a whole. Technologies sought under this SBIR Topic can be defined as advanced sensors, sensor systems, sensor techni ...

SBIR National Aeronautics and Space Administration

[7. H14.01: International Space Station \(ISS\) Utilization](#)

Release Date: 11-14-2014 Open Date: 11-14-2014 Close Date: 01-28-2015

Lead Center: JSC Participating Center(s): MSFC, KSC, GRC, ARC, JPL NASA continues to invest in the near- and mid-term development of highly-desirable systems and technologies that provide innovative ways to leverage existing ISS facilities for new scientific payloads and to provide on orbit analysis to enhance capabilities. Utilization of the ISS is limited by available up-mass, down-mass, and crew time a ...

SBIR National Aeronautics and Space Administration

[8. H14.02: International Space Station \(ISS\) Demonstration of Improved Exploration Technologies](#)

Release Date: 11-14-2014 Open Date: 11-14-2014 Close Date: 01-28-2015

Lead Center: JSC NASA is investing in technologies and techniques geared towards advancing the state of the art of spacecraft systems through the utilization of the ISS as a technology test bed. Successful submissions will describe requisite testing on ISS. Proposals that do not require testing at the ISS should respond to other subtopic solicitations in appropriate technical areas. If submitted t ...

SBIR National Aeronautics and Space Administration

[9. H14.03: Recycling/Reclamation of 3-D Printer Plastic Including Transformation of Launch Package Solutions into 3-D Printed Parts](#)

Release Date: 11-14-2014 Open Date: 11-14-2014 Close Date: 01-28-2015

Lead Center: MSFC Participating Center(s): JSC, KSC, ARC The National Aeronautics and Space Administration (NASA) has a long-term strategy to fabricate components and equipment on-demand for crew exploration missions. The greater the distance from Earth and the longer

the mission duration, the more difficult resupply becomes; thus requiring a significant change from the current space travel supply chain ...

SBIR National Aeronautics and Space Administration

10. [H14.04: Optical components, sensors, and systems for ISS utilization](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:LaRC The International Space Station (ISS) is an on-orbit research platform that provides a superior environment for human health and exploration, technology testing for enabling future exploration, research in basic life and physical science, and earth and space science as enunciated in the NASA Authorization ACT of 2010. This subtopic would focus on the utilization of ISS as a forem ...

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